(U) UTT Configuration READ ME

(U) Overview

(S//SI//REL) The Unified Targeting Tool (UTT) makes it possible to transition from today's selector-centric mode of operation, where each type of selector is entered into a different targeting tool, to a target-centric system. In this system, selection management is converged and then streamlined and automated, thereby facilitating analyst operation and collaboration. UTT, a mission critical component of the TURBULENCE architecture, provides a single point-of-service. Analysts enter all of their targeting requests for intercept from global network communications as well as private networks that are resident on or accessible using the global network infrastructure, regardless of the types of selectors or access capabilities to be employed.

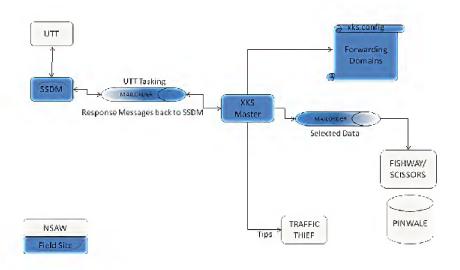
(U) UTT Dataflow

(U//FOUO) The UTT pushes selector targeting information to the Site Selection Distribution Manager (SSDM). The SSDM manages selector tasking at the field site. The SSDM receives the load/updates that were pushed from the UTT. It is responsible for any site-specific processing that must be performed before forwarding the appropriate subset of information to site-local collection systems.

(U//FOUO) Once messages are processed, the SSDM sends selector targeting information via MAILORDER to front-end collection systems at a field site (e.g., XKEYSCORE). The SSDM receives status back from these systems indicating whether or not the selector tasking was accepted or rejected and then returns status to the UTT in the form of load and update responses. The SSDM may also request, either automatically or manually by a local user, that the UTT send a complete reload of all selectors targeted for the site. Similarly, the field site's front-end collection systems may also request, either automatically or manually by a local user, that the SSDM send a complete reload of all selectors targeted for the site.

(U//FOUO) UTT Dataflow

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(U//FOUO) This Readme file is intended as an aid for setting up the appropriate configurations to load, ingest, and scan data against UTT tasking. It does NOT address forwarding selected traffic to PINWALE. Configuring XKEYSCORE for UTT can be accomplished in three phases. First, you will address three preconfiguration requirements. Next you will configure xks.config and xks.advanced.config to enable UTT tasking and appropriate MAILORDER routing. Last, you will execute a group of set-up processes to ensure all configuration changes are fully implemented.

(U) Pre-Configuration Requirements

(U//FOUO) The Unified Targeting Tool (UTT) works hand-in-hand with the Site Selection Distribution Manager (SSDM). Therefore you must have:

- an SSDM in place at the field site.
- the SSDM's routing trigraph so XKEYSCORE can send response messages back to the SSDM.
- a routing trigraph for the XKEYSCORE Master.

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(U/FOUO) Configuring UTT Selection in xks.config

(U//FOUO) Configuration for UTT selection and tasking can be accomplished in just seven steps:

- 1. (U//FOUO) Logon as the user oper.
- 2. (U//FOUO) At the command line from within any directory, type viconfig and then press Enter. The xks.config file will open.
- 3. (U//FOUO) In the [dictionaries] section of xks.config., set the following configurations:
 - a. utt = yes: This enables UTT tasking. The default setting for this configuration is no.
 - b. ssdm_trigraph = [field site trigraph] : This is the SSDM's trigraph for the field site. The default is XXX, which will need to be changed.
- 4. (U//FOUO) In the [processes] section of xks.config confirm that the MAILORDER configuration reads mailorder = yes. The default is no. This creates the mailorder proc process.
- 5. (U//FOUO) In the Mailorder inputs section of xks.config, type mailorder_input[0] = source:00:AB, dir:ssdm. This is the input configuration for check_mailorder_site.php. This particular configuration indicates that all incoming files in \$XSCORE_DATA_DIR/inputs/mailorder that have a Producer Designator Digraph (PDDG) of OO and a source system digraph of AB will be moved to \$XSCORE_DATA_DIR/inputs/ssdm.
- (U//FOUO) In the Plugin Config section of xks.config is the following placemark:

forwarding_domain[] = PLACEHOLDER - DO NOT REMOVE - ADD ENTRIES BELOW Below this placemark, type your own forwarding domains (i.e., routing trigraphs) like those identified in the *Forwarding Domains* chart. Forwarding Domains are in the form:

forwarding domain[N] = key:value,key2:value2,...

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(U//FOUO) The N is an identifier (forwarding_domain parameter) between 1 and 12. One type of key is the fdi key. It indicates where to send collected data of the domain. The value associated with this key is the routing trigraph of the domain. The Forwarding Domains table shown below identifies the forwarding locations associated with each identifier (forwarding_domain parameter).

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Forwarding Domains	
Routing Trigraph	Forward Location
forwarding_domain[1] = fdi:KFC	1-NSA
forwarding_domain[2] = fdi:SQP	2-NSA (NOFORN Only)
forwarding_domain[3] = fdi:KFC	3-CSE
<pre>forwarding_domain[4] = fdi:KFC</pre>	4-CSE NOFORN
forwarding_domain[5] = fdi:KFC	5-DSD
forwarding_domain[6] = fdi:KFC	6-DSD NOFORN
forwarding_domain[7] = fdi:KFC	7-GCHQ
forwarding_domain[8] = fdi:KFC	8-GCHQ NOFORN
forwarding_domain[9] = fdi:KFC	9-GCSB
forwarding_domain[10] = fdi:KFC	10-GCSB NOFORN
forwarding_domain[11] = fdi:KFC	11-3rd Party
forwarding_domain[12] = fdi:KFC	12-Local Support

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7. (U/FOUO) Type: wq! and then press Enter to exit xks.config.

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(U) Additional Processes

(U//FOUO) In addition to editing UTT/SSDM configurations in *xks.config* and *xks.advanced.config*, it is important to execute several set-up processes. As the open user, execute the following commands only after entering the SSDM configurations in *xks.config*:

- (U//FOUO) At the command prompt, type xks setup processes and press Enter. This
 creates the check_mailorder_site.php and mailorder_proc processes on the
 Master server.
- (U//FOUO) At the command prompt, type xks proc start and press Enter. This will ensure all of the running processes pick up any configuration changes.

As a result of executing these commands, the following processes will begin:

- (U//FOUO) The check_mailorder_site.php process, which polls \$XSCORE_DATA_DIR/inputs/ssdm and moves the SSDM MAILORDER file(s) to the \$XSCORE_DATA_DIR/inputs/ssdm directory, according to the [mailorder_input] rule in the xks.config file.

Note: If a MAILORDER input rule is changed in xks.config, then type xks proc restart cms to restart the check mailorder site.php process.

- (U//FOUO) The mailorder_proc process, which polls
 \$XSCORE_DATA_DIR/outputs/mailorder_working directory and properly renames and moves any MAILORDER files to \$XSCORE_DATA_DIR/outputs/mailorder for pick-up by MAILORDER.
- (U//FOUO) The strong_selector_targeting process, which polls\$XSCORE_DATA_DIR /inputs/ssdm for any tasking updates or full loads. When it receives a message from the SSDM that updates are available, a response receipt is generated and sent to \$XSCORE_DATA_DIR/outputs/mailorder_working. Next, strong_selector_targeting processes the UTT updates/tasking files and writes the processed files to \$XSCORE_DIR/config/dictionaries/selectors/strong.selectors.

(U//FOUO) Another receipt is generated after processing of an update/full load is complete. The message indicates success or failure and is also placed into \$XSCORE_DATA_DIR /outputs/mailorder_working.

Note: (U//FOUO) The strong_selector_targeting process will request a reload if it receives SIGUSR2, if it starts up and sees utt.selectors is still there, or if it starts up and has no targeting.